

AMENDMENT TO THE TITLE

Please amend the title as follows;

~~Display Device for Presentation~~

Coordinate-based display object movement restriction method

AMENDMENT TO THE SPECIFICATION

Please insert the following paragraphs after the last paragraph on page 9 of the specification:

Other embodiments of the present invention may include a display system composed of a pointing device with means for detecting motion in two directions, such as x and y, and a display device with means for acquiring the detected motion from the pointing device. The system may also contain a controller that moves a pointer or other display object based upon the acquired motion information.

Determining a direction of motion may entail comparing the absolute value of a component in the x direction and the absolute value of a component in the y direction and selecting the larger of the two as the direction of motion.

This embodiment of the system may also contain a means for expanding the size of a leading-in area covering a direction of motion as continuous motion is detected in that direction and also for changing between a leading-in area for the x-direction (Fig. 2B) and a leading-in area for the y-direction (Fig. 2C) as the x and y component makeup of the detected motion changes.

The established leading-in area is used to 'smooth out' detected motion into motion in only one direction, in this case only horizontal or vertical motion, based on the coordinates of the motion. If the coordinates of a motion lie within the currently established leading-in area, then motion is determined to be in the direction covered by the leading-in area. If the coordinates of a motion lie outside the currently established leading-in area, then motion is determined to be in the direction not covered by the leading in area. For example, if the x-direction leading in area is the currently established leading-in area, a motion having coordinates within the leading-in area would be interpreted as only horizontal motion while a motion having coordinates outside the leading-in area would be interpreted as only vertical motion.

The invention being thus described, it will be obvious that the same may be varied in many ways. Such variations are not to be regarded as departure from the spirit and scope of the invention, and all such modifications as would be obvious to one skilled in the art are intended to be included within the scope of the following claims.